



“The Evolution of the CISO Role in the Coming Decade”

Thursday, August 10, 2006

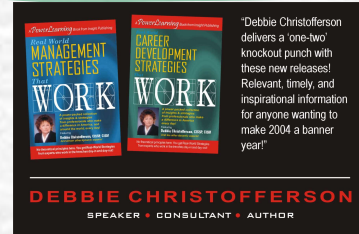
Debbie Christofferson, CISSP, CISM

Sapphire-Security Services LLC



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- Debbie knows security from the ground up, based on 20 years first hand Fortune 500 experience across the U.S., Europe, and Asia with Intel Corporation.
- She is President of Sapphire-Security Services LLC.
- Debbie is a published author, and writes a column for technology trends and careers.
- She's on the board for Phoenix ISSA, SDSUG, and a member of the ITT Technical Institute's Advisory Board. Debbie is a member of the National Speakers Association, the Arizona Technology Council, ISACA, ATW, and OWIT.
- Call Debbie if you need an expert in security strategy and management, for consulting, speaking, training or writing.



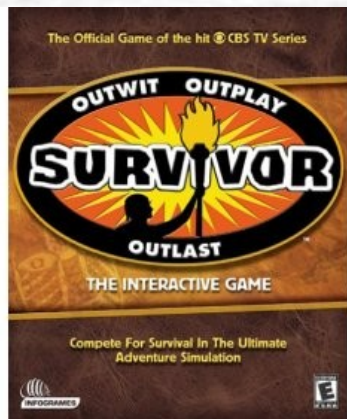


Session Overview

- Security has evolved from a home-grown affair to a critical front facing capability required for organization success. Have you evolved with it? What can the CISO expect in now visible world of security in the coming decade? How do you leverage coming trends, career and management opportunities, and the changing face of threat and organizational risk? How will you support the ongoing evolution in support of global commerce and communication? This session identifies trends and opportunities for CISOs of the coming decade and helps you build a strategic plan to address them.

Will your business be outcast?

Security today is reactive and immature. Many organizations lack a security strategy. There is no way to guard against the weakest link—the end user. Yet security has surfaced to become a critical business challenge, ...and none of us wears an immunity necklace.



Security Jeopardy – What is?

- Most important topic in IT world



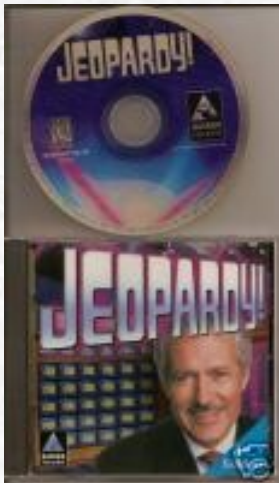
Security Jeopardy – What is?

2. Estimated to account for 7% of global trade



Security Jeopardy – What is?

3. Organization paid USD\$34M for security breach



Security Jeopardy – What is?

4. Company paid USD\$50M for misstating earnings



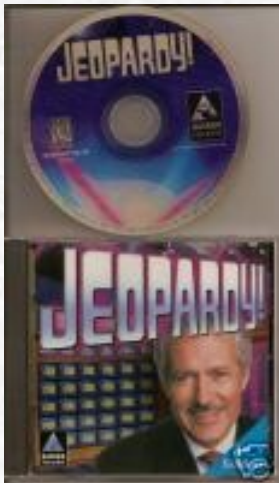
Security Jeopardy – What is?

5. #1 method used in 2005 to assess risk before a security purchase



Security Jeopardy – What is?

6. Estimated to cost corporations average
USD \$3M to comply



Hacker Jeopardy – What is?

7. 2005 proceeds estimated to exceed those of illegal drug trade



Hacker Jeopardy – What is?

8. 2/3 fail to live up to expectations



Hacker Jeopardy – What is?

9. More likely to steal your personal data



Hacker Jeopardy – What is?

10. Commit more than 70% of unauthorized access



Hacker Jeopardy – What is?

11. Agreed to step up enforcement of intellectual property rights



Hacker Jeopardy – What is?

12. Return on investment is proportionate to preparation



Hacker Jeopardy – What is?

13. About 3% of employees admit to this Internet practice despite company ban



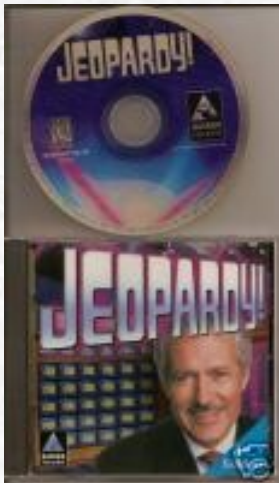
Hacker Jeopardy – What is?

14. Most consumers never turn this on for their wireless access point



Hacker Jeopardy – What is?

15. Biggest concern of Internet Protocol telephony customers worldwide



“Computer security has become the single most important topic in the IT world.

...**Security budgets have outpaced overall IT expenditures...**”

“A Security Plan With Teeth”, *CFO-IT Magazine*, Spring 2005



Benefits

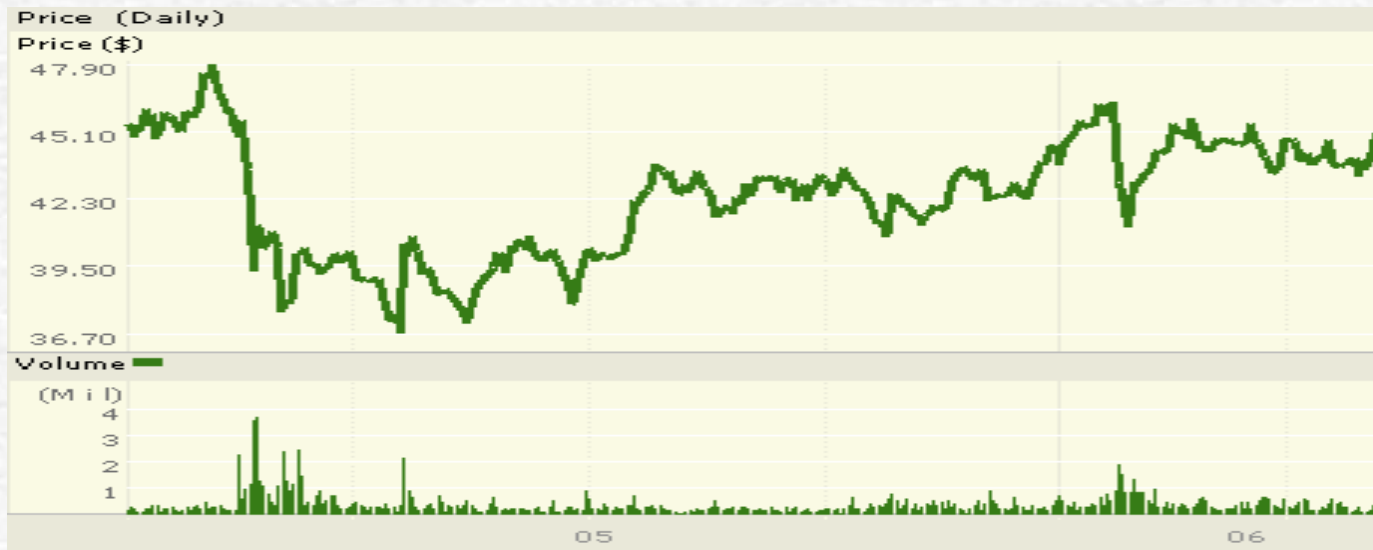
- ☛ Plan for and align security strategically to future risks and trends
- ☛ Increase your credibility, visibility, and support for your security objectives
- ☛ Enhance the success of your security program!
- ☛ Grow your career!



ChoicePoint's stock dropped nearly 10% after announcing that criminals duped it into giving access to its database.

“ChoicePoint Execs Sold Stock Before Leak Revealed”

Harry R. Webber of the Associated Press, *The Arizona Republic*, 2/27/05



It's only money, ...



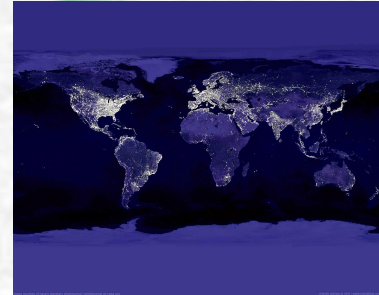
- ChoicePoint loses \$15M to FCC settlement, \$19M to legal and professional fees and \$5M for consumer redress
 - Security and record-handling policies that were illegal and in violation of consumer privacy rights
- McAfee paid a \$50M fee for mis-stating earnings

<http://www.tmcnet.com/usubmit/2006/01/28/1322292.htm>



Top Drivers

- ✓ Regulatory Requirements
- ✓ Fraud
- ✓ Convergence
- ✓ Business Risk





Compliance Risk

- “Regulatory compliance jumped to 1st place in 2005 as a method for assessing risk before a security purchase.”

IT Business Edge, 12/14/05, from “Third Annual Strategic Deployment Survey”, *Secure Enterprise Magazine*, 11/1/05

Top Spending



- Regulation compliance spending is double the growth of IT spending
- Budgets divert to regulatory compliance through 2010
- Stifles business growth and funding
- Regulation is increasing

“Top 10 Projects in 2006”, By Todd Spangler, *Baseline Magazine*, March, 2006

Risk - Regulatory



- Privacy

- Emedical and emerging search

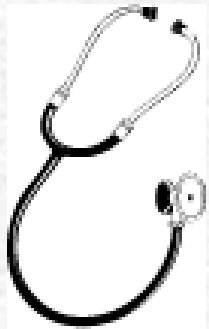
- Import and export trade regulation


- Financials

- Recycling

- Standards – control frameworks

- Global, country, state, ...





“Audit committee is proposed for Mesa Public Schools”

The Arizona Republic, August 6, 2006

Privacy

Zillow.com - Real Estate Search Results - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Link

Address <http://www.zillow.com/search/Search.z?addrstrthood=5830+w.+kesler&citystatezip=chandler%2C+az+85226&mode=search> Go Links

Searching. Search Web VideoTalk Last scan - today 757 popups blocked

Google Search 20 blocked Check Look for Map AutoFill Options

Home Map & Search How to Use Zillow

Value Any Home Address OR Street OR Neighborhood City, State OR ZIP
5830 w. kesler chandler, az 85226 **GO Advanced Search**

Showing [5830 W Kesler St, Chandler, AZ 85226](#)

☒ Show all homes ☒ Show search results

Map controls: Street Satellite Hybrid

Zestimate™: \$340,561
5830 W Kesler St
Chandler, AZ 85226
(Approximate map location)
--BR / 2.5BA / 1,917 sq ft
• [See home details](#)
• [View comparable homes](#)

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#	Address	Home Type	BR	BA	Zestimate™	Home (sq ft)	Lot (sq ft)	Year Built	Date Sold
26	5830 W Kesler St	Single-Family	3	2.5	\$340,561	1,917	10,000	2005	
30	5830 W Kesler St	Single-Family	3	2.5	\$340,561	1,917	10,000	2005	

Chandler Homes For Sale
View Current & Local Home Listings. Let Our Quick & Easy Service Help!
www.HomeGain.com

Chandler Homes
Search for new home communities at iNest. Info updated weekly.
www.iNest.com

Chandler Homes For Sale
Free Phoenix MLS search. Homes condos, property. See photos & maps
www.ZipRealty.com

Chandler Homes For

Internet

start Expenses HfWin... Zillow.com - Rea...

2:34 PM
Friday
2/17/2006

Monitoring



- Surveillance
- Monitor Internet usage
- Conduct Background checks
- Monitor employee compliance with policies and procedures





“Phone tap surveillance laws OK’d in Hong Kong”

The Arizona Republic, 8/6/06

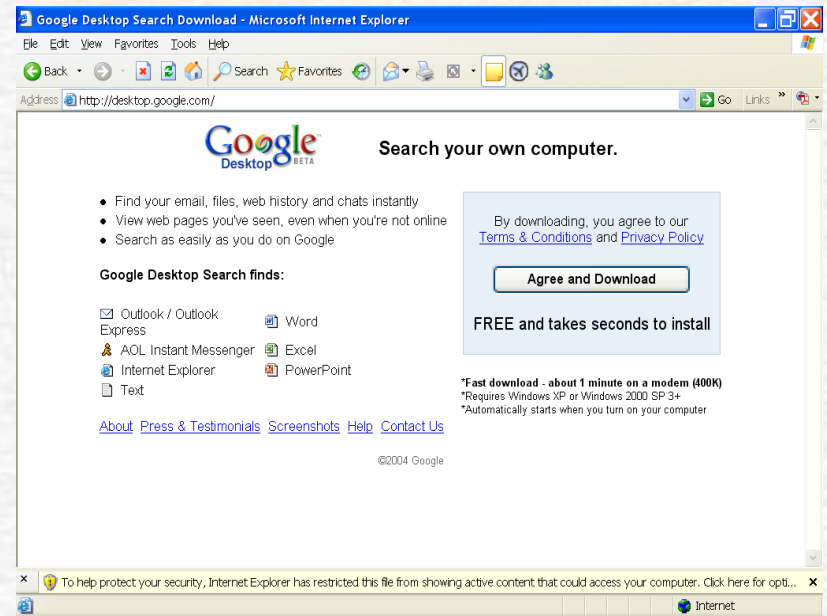
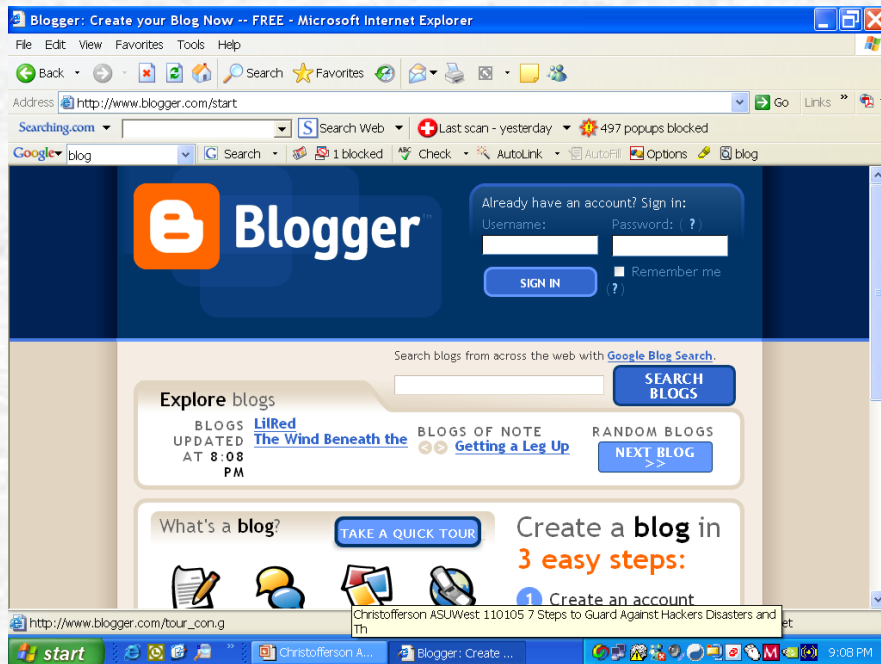
“ID Chips Not Just for Pets Anymore From CNN (Topic: RFID), Feb 13, 2006

• Tiny silicon chips were embedded into two workers who volunteered to help test the tagging technology at a surveillance equipment company.

<http://ct.eneews.cioinsight.com/rd/cts?d=188-303-1-20-91746-38620-0-0->




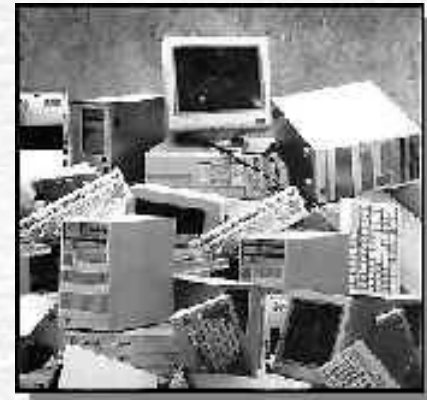
Online Search

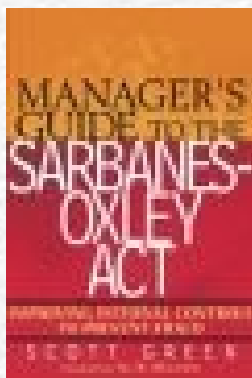


What are You Throwing Out?



 click to enlarge





“Executives International estimates that it will cost corporations an average of \$3 million to comply with the rule”

**“Sarbanes-Oxley Delay Granted”,
Deborah Solomon, *Wall Street Journal*, 3/6/05**

New crime frontier moved online

- Identity theft
- Organized crime
- Extortion
- Auction fraud
- Hackers



Online Criminal Extortion

“2005 cyber-crime proceeds estimated to exceed those of illegal drug trade”

“2005 Labeled Worst Year for Computer Break-ins”, By Jon Swartz, *USA Today*, in *The Arizona Republic*, 1/1/06

- Online gambling sites
- Small businesses
- Executive officers
- Banks and online retailers



Credit Card Fraud



- “According to the Merchant Risk Council, retailers that don’t manage credit card fraud can have charge-back percentages in the double-digits.”
 - CSO Magazine, December, 2005
- Large black market for stolen credit card details

Indicators of Insider Fraud



- Company performance lags behind peers
- Performance has sudden strong increase
- High percentage of stock option compensation to CEO

“Fraud Factors That a Company Could Be Cheating”,
CFO Magazine, November, 2005, P. 23



Scams & Fraud

Description	Average Victim USD Cost
☞ Nigerian money offers	USD \$6937
☞ Phony checks (and money orders and cashier's checks)	USD \$4361
☞ Lottery scams	USD \$2619
☞ Work-at-home schemes	USD \$1785
☞ Advance-fee loan scams that guarantee credit	USD \$1426

The Arizona Republic, 1/30/06, Rick DeBruhl of Call 12 for Action





“According to Gardner, more than 70% of unauthorized access to data is committed by an organization’s own employees.”

“Five Common Insider Threats & How to Mitigate Them”,
by Kevin Beaver, SearchSecurity.com, 1/16/05



Who stole your personal data?

Victims of identity theft who could ascertain the identity of the criminal were asked, "Who misused your personal information?"

Family member or relative **32.0%**

24.1% Stranger outside workplace

18.2% Friend, neighbor or in-home employee

No answer **1.3%**

Other **8.0%**

Someone at work **3.5%**

12.9% Person at a company or financial institution with my information

Source: Javelin Strategy & Research survey of 509 respondents on behalf of the Better Business Bureau. Margin of error +/- 7 percentage points.

GANNETT NEWS SERVICE



“Despite bans on Internet gambling by most corporations, about 3% of employees admit to the practice.”

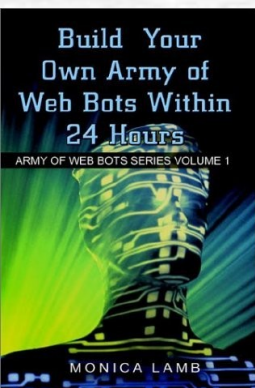
“Internet Gambling Jackpot”, *Trends eMagazine*, April, 2005



Home Users



“Bots are often precipitated by unsecured **always-on** broadband connections, ...”



“How to Tell if You Have Bots”, *CSO Magazine*, December, 2005

Remote Management of Home Network

The screenshot shows a Microsoft Internet Explorer browser window displaying the website for 1-800-GeeksOnTime. The browser's address bar shows the URL http://www.geeksonline.com/remote_home.html. The website features a blue header with the company logo, a navigation menu, and a main content area with a large banner and a sidebar. The banner includes the text "NATIONWIDE SERVICE Locations We Have Served Sioux Falls, SD" and "Remote Support". The sidebar lists various services and features, including "Immediate Real Time Onscreen Support" and "256K bit RC4 Security Encryption".

1-800-GeeksOnTime
EXPERT ONSITE COMPUTER SOLUTIONS IN 24 HOURS!

PHONE 1-800-433-5766 Schedule A Service Call ONLINE Click Here

NATIONWIDE SERVICE
Locations We Have Served
Sioux Falls, SD

Remote Support

HOME NATIONAL ACCOUNTS CONTACT US REMOTE SUPPORT SERVICES

CALL 1-800-GeeksOnTime 24/7 Nationwide IT Services (1-800-433-5766)

Computer Service Solutions in Minutes Right Over The Internet!

Throughout our history, you've always been able to count on 1-800-GeeksOnTime® 24 X 7 for fast, professional onsite service. Now, through the use of 21st century support tools, we can also assist you in resolving issues remotely over the Internet within MINUTES rather than hours. Our onscreen assistance software allows us to bring a qualified technician right to your computer working alongside you just as they would in your home or office over a secure 256 bit connection.

Through the magic of our easy-to-use/secure software, you can watch our trained professional technicians connect to your PC and navigate through the issue and quickly resolve it. We can do remote virus and spyware removals, provide training on software programs, troubleshoot networking issues, diagnose a hardware or printer issue, or provide you with specialized expert consultations on a variety of technical issues.

Remote support is billed in 15 minute increments and starts only from the time our designated technician connects to your system. As with our onsite service calls, the initial consultation with one of our dedicated GeeksOnTime service managers is

SERVICE FEATURES

- Immediate Real Time Onscreen Support
- 256K bit RC4 Security Encryption
- Experienced Level 2 Computer Technicians
- 15min Increment Billing

Coming Soon GOT Membership

- Who We Are
- What We Do
- In Your Home
- At Your Office
- Nationwide Services
- Remote Support
- GOT Recommends
- Technicians

Done Internet

start WFS Speaker Listin... 1 800 GeeksOnTim... Inbox - Microsoft O... Untitled - Message ... 1:38 PM

“Thieves Tap Wi-Fi Networks With Ease”

“Connections are being commandeered for child pornography, fraud, death threats and identity and credit-card theft.”

“...Most consumers who spend the \$60 to \$80 for a wi-fi router are just happy to make it work at all and never turn on encryption.”

By Seth Schiesel, *New York Times*
The Arizona Republic, March 20, 2005



Risk - Intellectual Property



Easy to steal trade secrets

- Trademark and trade secret protection and enforcement
- Loss of R&D, marketing plan, supplier chain, ...

Global counterfeiting

“...Sale of bootleg products is estimated at to account for up to 7 percent of global trade...”

CSO Magazine, Dec/ 2004, “Top Billing: News From Inside the Beltway”



Counterfeiting Growing:

“Imitation is the sincerest form of flattery.”



- ✧ Elevators
- ✧ Consumer goods
- ✧ Jeans
- ✧ Golf clubs
- ✧ Printer cartridges
- ✧ Chips
- ✧ Software & Hardware
- ✧ Phony formula cigarettes
- ✧ Bogus Budweiser
- ✧ Automobiles
- ✧ Car parts
- ✧ Rejected parts resold as originals
- ✧ Music
- ✧ Movies
- ✧ Entertainment
- ✧ Medicine
- ✧ Pharmaceuticals
- ✧ Prescription drugs



“China Product Piracy May Bring Trade Actions”

March 4, 2006, *The Arizona Republic*

“China is failing to do enough to prevent growing product piracy and could be forced to answer formal complaints over it to the World Trade Organization if it doesn’t take more aggressive action,...”



“... the Chinese agreed to require that computers use legal software and to step up enforcement of intellectual property rights. They also pledged to close Chinese plants that are producing pirated CDs and DVDs.”

“China Agrees to Crack Down on Software Piracy”,
The Arizona Republic, 4/12/06





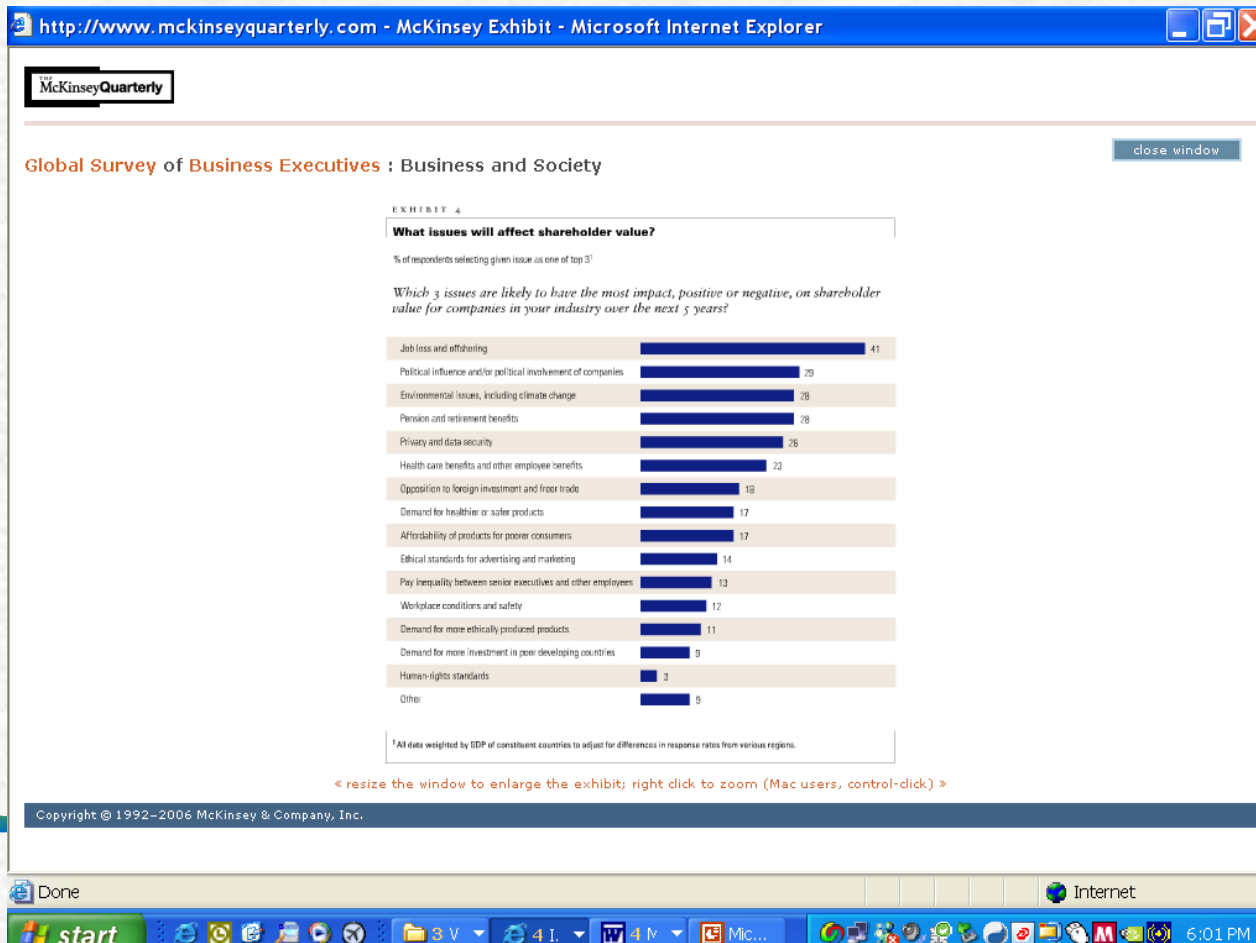
**“Microsoft Chairman Bill Gates said ...
that beating software piracy in China
and India and getting compliance up
to U.S. and European levels would
take 10 years”**

Reuters, Published on ZDNet News: 1/27/06
http://news.zdnet.com/2100-3513_22-6031952.html

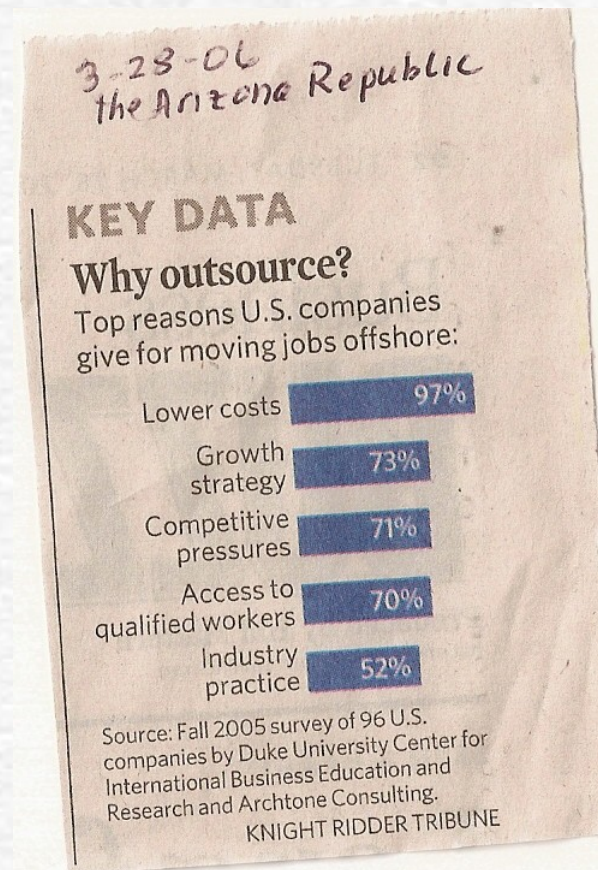
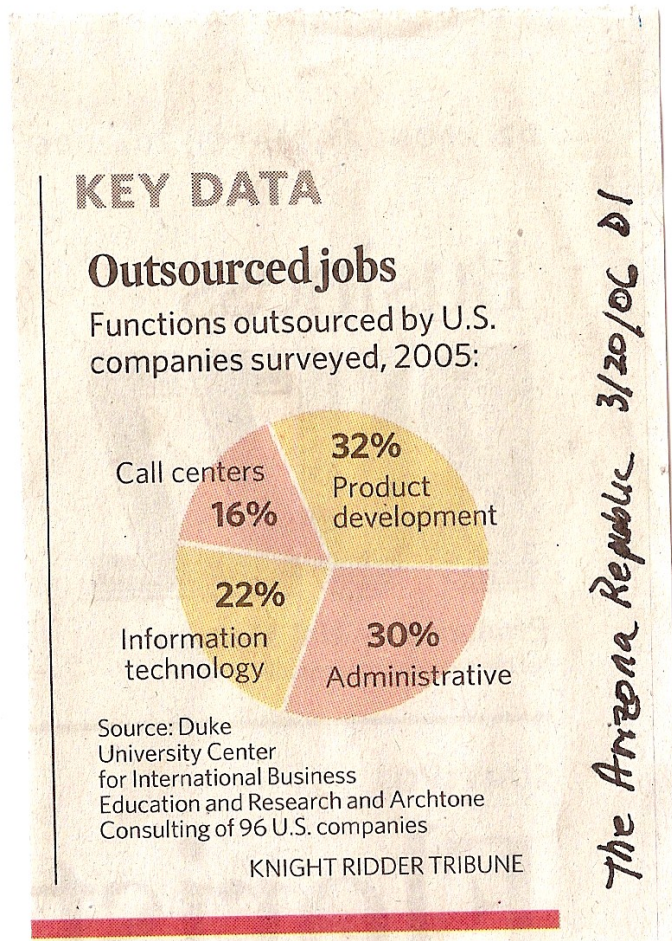
What Issues Will Affect Shareholder Value?

#1 – 41% Job Loss & Off-shoring

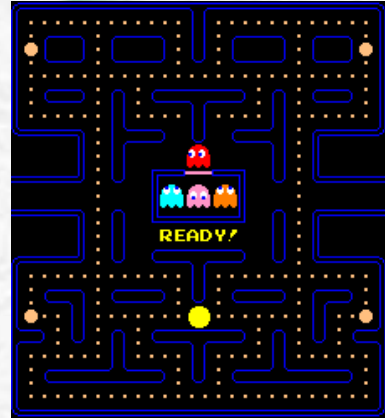
#4 – 26% Privacy & Data Security



2005 US Outsourced Functions



Merger Mania



Consolidating Industries

- Banking
- Telecommunications
- Software: Business app (eg.: CRM, SAP)
- Wine



Benefits

- Increase sales
- Grow market share
- Spread risk
- Gain cost savings synergies
- Fill holes in product or service offerings
- Get bigger



☛ M & A Drivers

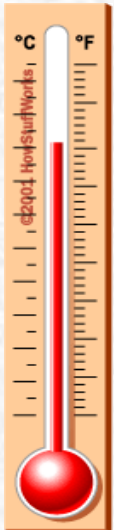
- ☛ Confidence

- ☛ Lots of corporate cash

- ☛ Low interest rates & inflation

- ☛ 2/3 of M&A fail to live up to expectations

- ☛ *Business Briefings*, November, 2005



Risk - Disasters

- Business continuity planning for core systems, processes, people
- “What do you lose?”
- “How much downtime can you afford and for how long?”



http://explorer.altopix.com/map/vsv2oh/Palo_Verde_Nuclear_Power_Plant.htm



http://explorer.altopix.com/map/4bgek3/1/360/Hoover_Dam.htm?order=date

Florida's Hurricanes

“Overall return on investment was directly proportional to preparation.....Companies that has focused solely on disaster recovery planning—without including a **plan for full business continuity** --were affected more.”

“Up and Running:”, John Medaska, CSO Magazine, Dec-2004



http://meted.ucar.edu/hurrican/strike/text/dz_dsc.htm

Edge Security – IP Telephony

ITAA Newsletter “Innovation at the Edge”, Mark Uncapher

IT Observer, Monday, 6 March 2006 14:07 EST



- “Security fears are the biggest concern of internet protocol (IP) telephony customers worldwide, ...”
- Business continuity planning for telephone network



Technology

- ☞ Wireless
- ☞ Laptops overtaking desktops
- ☞ Portability and mobility
- ☞ iPod bootable device
- ☞ Storage
- ☞ Lock down devices to standard configuration



Afghan market sells US military flash drives

Bazaar security breach

By John Leyden, Published Tuesday 18th April 2006 12:12 GMT
http://www.theregister.co.uk/2006/04/18/afghan_market_security_breach/

Related stories

Stolen VA laptop sold off 'back of a truck' (6 July 2006)

[Laptop with veterans' data recovered intact](#) (30 June 2006)

[White House calls for improved laptop security](#) (28 June 2006)

[NHS mobile data security is pants](#) (28 June 2006)

[US veterans' data exposed after burglary](#) (23 May 2006)

[Stolen laptops hand hackers keys to the kingdom](#) (25 April 2006)

[PwC warns of WEEE complexity](#) (22 November 2005)

[MoD suppliers' laptop turns up on rubbish tip](#) (26 April 2005)

[Police hard drive sold on eBay](#) (7 April 2005)

[Investigators uncover dismal data disposal](#) (17 February 2005)

[Oops! Firm accidentally eBays customer database](#) (7 June 2004)



<http://www.defendamerica.mil/photoessays/june2003/p062003a1.html>

Technology



- ☞ Converged technology infrastructure
 - Network, alarms, voice, video, physical and logical access
 - Home: Computer, phone, TV, Lights, air conditioning, camera, stereo, home security, ...
- ☞ Collaboration, device-to-device, ...
- ☞ Biometrics mainstream in 10 years
- ☞ Integrated security products



“Pirate Radio Disrupting Flights at Miami Airport”



“Airline pilots departing from Miami International Airport are getting an earful of something unexpected: Hi-hop tunes from a pirate radio station that sometimes interfere with their communications with the control tower. Authorities traced the signals to an antenna at a nearby warehouse but did not find the disc jockey”

The Arizona Republic, 3/20/06



Wireless Security: Who am I?





True or False?

- ☞ You lack credibility
- ☞ People tune you out
- ☞ You're ignored when you talk
- ☞ People delete your emails
- ☞ No one listens in meetings
- ☞ People avoid you
- ☞ No one does what YOU want
- ☞ People wonder what you do
- ☞ Clients ask for someone else
- ☞ Eyes glaze over
- ☞ People call your manager to complain
- ☞ Customers see you as condescending
- ☞ Your career stalls
- ☞ You never get the cool assignments

- ☞ You have management's ear
- ☞ People listen when you talk
- ☞ You have credibility
- ☞ You speak with authority & power
- ☞ People respond to your emails
- ☞ You influence people to support your projects
- ☞ People comment on how well you write and speak
- ☞ People ask you how you learned to speak so well
- ☞ Customers love working with YOU
- ☞ Clients ask for you by name
- ☞ You receive recognition all the time for your accomplishments
- ☞ You are asked to showcase company at Japan's PC Expo



Communication



“I have met so many technical people who cannot speak English...”

Nancy Gerber, in Speakernet News Teleseminar,
“What’s the Matter With Your Web Site?”



“Perhaps one of the most frustrating aspects of my job is receiving a media announcement or press release written in what appears to be English but is actually in another language that I've dubbed techno-babble (AKA Flakeese).”

“Confusion does not build trust!”

2/20/02, Techno-Babble Trap By *Denise Culver* A recent Allegiance Telecom press release shows the dangers of avoiding English



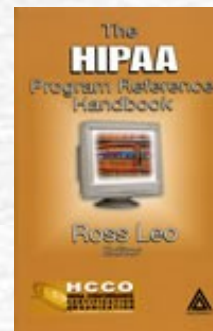
What Results Do You Want?



- Using email to request action or report progress and issues
- Progress reports to inform stakeholders of actions, issues and plans.
- State of Security Report
- Audit Reports to Management
- Strategic plans and objectives
- Support for budget, programs, staff

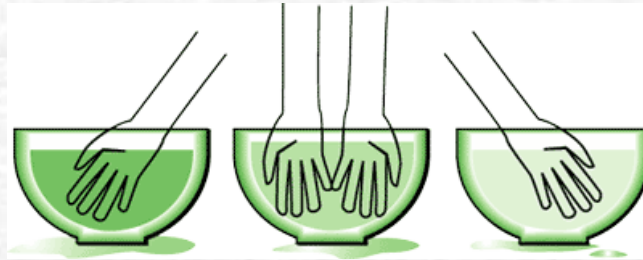


How are you communicating compliance & policy?



[www.salon.com/
books/feature/
2002/02/13/bookstores/](http://www.salon.com/books/feature/2002/02/13/bookstores/)

Is your career lukewarm?



Is your boat sinking?



<http://news.bbc.co.uk/1/hi/england/tyne/3861481.stm>,
July 2, 2004, Lifeboat crew spray burning boat

THORNTON A. MAY

Appearance Matters, Even in IT

DOES what you wear to work really matter?

Yes, and quite a lot, according to preliminary data from a multiyear study of IT leadership best practices at the IT Leadership Academy (www.itleadershipacademy.org). One thing that the study has uncovered is that virtually all high-performing IT organizations aggressively manage the perception of IT in the minds of key constituents: Great IT leaders manage their own brand and the brand of IT. A key and surprising part of such brand management is how IT dresses.

Anthropologists and historians have long known that clothing and costume are key elements of culture. In the realm of IT scholarship, though, very little energy has been devoted to issues of dress — what we wear, why we wear it, how we wear it. Not much has been written about the psychological aspects of IT fashion. For example, how does what we wear reflect our internal mental state or affect it? Does it reinforce the mental models that business colleagues have of IT, or does it create dissonance?

According to the IT Leadership Academy research, in organizations where IT looks like the business — wearing the same sorts of clothes as people on the business side of the organization — alignment is better and performance improves. This unexpected finding gives rise to a rich and rarely mined vein of sociological, anthropological and psychological research.

We were guided and aided in this new research area by fashion scholar Valerie Steele, chief curator and acting director of the museum at the Fashion Institute of Technology in New York. A preliminary examination revealed



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all kinds of fascinating insights:

■ **Women in IT dress better than men in IT** (which may explain the accelerating ascendancy of women into C-level positions).

■ **The different tribes of IT have different costumes.** IT sales folks are suited up, those in break-and-fix roles tend to wear mid-dress pants and golf shirts, security folks remain tragically out of step with sartorial norms, and contracted technology consultants tend to wear collared dress shirts and business-casual wear.

■ **High-performance, image-aware next-generation IT executives have discovered the wonders of affordable bespoke British tailoring.** There's a reason they call those things "power suits." (It isn't too surprising that these execs often choose Whitcomb & Shaftesbury of Savile Row. The tailor's principals, Suresh and Mahesh Ramakrishnan, are IT heroes, Suresh having been a driving force behind the state-of-the-art IT risk management algorithms used so successfully at Goldman Sachs, and Mahesh is a very successful systems integrator.)

What with wearable computers and the iPod as accessories, IT itself is now a fashion industry of sorts. But IT executives still aren't viewed as fashionable. Quite conversely, IT people — at least from the point of view of the creators of popular culture (e.g., movies and TV ads) — remain fashion-challenged. The dominant image of an IT guy remains the egregiously overweight, ethically challenged and destined-to-be-eaten programmer in Steven Spielberg's *Jurassic Park*. This stereotype of poor personal hygiene and sophomoric tastes in slovenly clothing must change if the profession is to evolve. As one health care CIO explained to us, "As always, and as in any other profession, the most important skill sets are the social ones." ☎ 52952

Security Careers of Future



- Risk Officer
- CISO evolves beyond techie
- Converged role: CSO & CISO
 - Corporate Security Officer & Corporate Information Security Officer
- Forensics
- Certifications
 - CFA – Certificated Forensics Accountant
 - CISSP, CISA, CISM, ...
- Security clearances

Super-sleuth Sherlock solved crimes with forensic chemistry





Tech Trends 10 Years

- ✓ Nanotech
- ✓ Struggle to land best talent
- ✓ For competitive advantage, 70% of technology executives have an eye on entrepreneurial startups, as source of new ideas, new technology, new talent, and new partnerships

PWC Survey of executives in technology in 34 countries, in
Executive Connection Technology series, According to
Business Briefings, November, 2005

Cyber Insurance

- “Written insurance premiums doubled in 2005 since 2003.”
 - “Inside Business Shock Absorbers, By Maryanne Murray Buechner, *Time Magazine*, March/06
- To qualify, company must comply to internationally accepted security standards.
- “Why transfer risk to insurance companies who have weaker balance sheets than you do?”
 - “Winds of Change, by Russ Banham, *CFO Magazine*, Dec/2005, from Stephen Cross, CEO of AON Captive Services Group



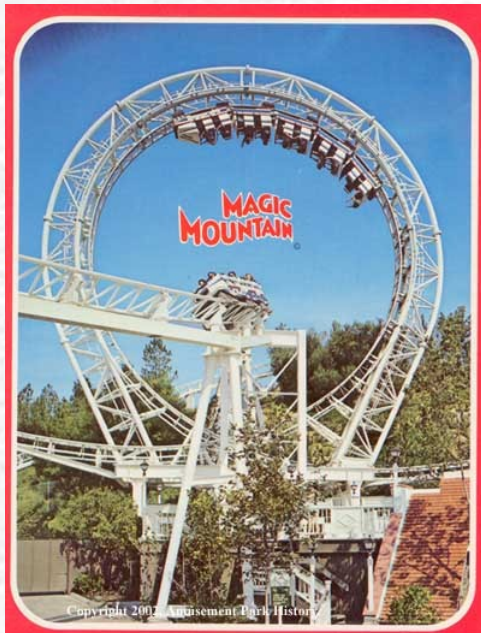


“More data will be created in next three years than was produced in last 40,000.”,

“Reef the Mains, Storm Jibs Ready”, by Victoria Ho, *CIO Asia* Ng quote from University of California (Berkley)

“You really need a revolution,

**....in the IT industry.... If
engineers built bridges as
software developers build
software, there wouldn't be a
bridge standing.**



Mary Ann Davidson, Oracle CSO, “Security Wire Perspectives”,
Vol. 6, No. 93, December 6, 2004 by *Information Security Magazine*

The Future of Software Security

- Secure tools for software development, code verification and analysis are starting to take off.
- Programming languages are developing that make mistakes more difficult, in memory allocation bugs and locking errors.
- Defense in depth is expanding to limit hacker damage: No-execute flags in processors, software emulation, and randomizing the location of objects in memory.
- Users create the weak link today, and you can't effectively protect against them. Operating system software of the future can force behavior using system-enforced policy.
- Programmers need to write code that is reliable, usable and manageable, and can be proven to be secure.
- Security needs to be implemented in software development tools. This also increases programmer productivity by eliminating tedious tasks such as memory management, and identifying and tracking bugs.

Summarized from: "The Next 50 Years of Computer Security: An Interview with Alan Cox" by [Edd Dumbill](#), an editor at large for [O'Reilly Network](#), 09/12/2005



Eye of the Future



- Regulations drive security
- 107 Security becomes a contractual requirement
- Counterfeiting and piracy create new battleground
- Opportunities open for CSO/CISO with business skills





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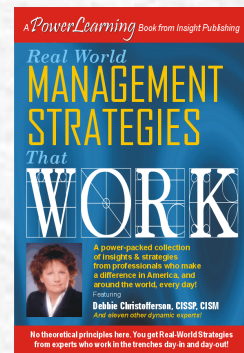
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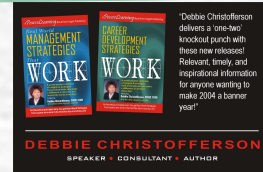
Answer Key

Security Jeopardy - What is?

1. Security
2. Counterfeiting
3. Choicepoint
4. McAfee
5. Regulatory compliance
6. Sarbanes-Oxley
7. Organized crime
8. Mergers & Acquisitions
9. Family member or relative
10. Employees
11. China
12. Business continuity planning
13. Internet gambling
14. Encryption
15. Security



Debbie Christofferson, CISSP, CISM



- Debbie knows security from the ground up, based on 20 years first hand Fortune 500 experience across the U.S., Europe, and Asia with Intel Corporation.
- She currently manages her own business, Sapphire-Security Services LLC, which increases the results and effectiveness of security through management consulting, program leadership, workshops and speaking.
- She's a published author and writes a column for technology trends and careers.
- Debbie is a Board Member for Arizona ISSA & SDSUG, and ITT Technical Institute's IT Advisory Committee.
- She's a member of the National Speakers Association, the Arizona Technology Council, Organization of Women in International Trade, Information Systems Audit and Control Association, Infragard, and the Alliance of Technology and Women.